

1 Attorney Docket No. 84454

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OPTICAL FIBER COUPLER

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ABSTRACT OF THE DISCLOSURE

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Optical fiber coupler for coupling fiber optic elements

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includes a first fiber optic element extending in a first

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direction to position a free end thereof in a selected zone, and

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a second fiber optic element extending into the selected zone

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from an opposite direction to position a free end of the second

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fiber optic element in the zone confronting the first fiber optic

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element free end. A cured optical grade epoxy resin body defines

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the zone and envelopes the free ends of the fiber optic elements,

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to effect physical and optical connection between the first and

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second fiber optic elements. Once cured, the housing material is

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removed leaving the completed coupler device. The free ends of

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the fiber optic elements are in close proximity, or in the case

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of coupling from one strand to a plurality of strands, in enough

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of a spaced relation, to permit required light diffusion.